

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2
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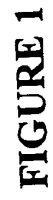


FIGURE 1

Country	Year	Value	Unit	Source
Algeria	1970	100	kg	FAO
Algeria	1971	100	kg	FAO
Algeria	1972	100	kg	FAO
Algeria	1973	100	kg	FAO
Algeria	1974	100	kg	FAO
Algeria	1975	100	kg	FAO
Algeria	1976	100	kg	FAO
Algeria	1977	100	kg	FAO
Algeria	1978	100	kg	FAO
Algeria	1979	100	kg	FAO
Algeria	1980	100	kg	FAO
Algeria	1981	100	kg	FAO
Algeria	1982	100	kg	FAO
Algeria	1983	100	kg	FAO
Algeria	1984	100	kg	FAO
Algeria	1985	100	kg	FAO
Algeria	1986	100	kg	FAO
Algeria	1987	100	kg	FAO
Algeria	1988	100	kg	FAO
Algeria	1989	100	kg	FAO
Algeria	1990	100	kg	FAO
Algeria	1991	100	kg	FAO
Algeria	1992	100	kg	FAO
Algeria	1993	100	kg	FAO
Algeria	1994	100	kg	FAO
Algeria	1995	100	kg	FAO
Algeria	1996	100	kg	FAO
Algeria	1997	100	kg	FAO
Algeria	1998	100	kg	FAO
Algeria	1999	100	kg	FAO
Algeria	2000	100	kg	FAO
Algeria	2001	100	kg	FAO
Algeria	2002	100	kg	FAO
Algeria	2003	100	kg	FAO
Algeria	2004	100	kg	FAO
Algeria	2005	100	kg	FAO
Algeria	2006	100	kg	FAO
Algeria	2007	100	kg	FAO
Algeria	2008	100	kg	FAO
Algeria	2009	100	kg	FAO
Algeria	2010	100	kg	FAO
Algeria	2011	100	kg	FAO
Algeria	2012	100	kg	FAO
Algeria	2013	100	kg	FAO
Algeria	2014	100	kg	FAO
Algeria	2015	100	kg	FAO
Algeria	2016	100	kg	FAO
Algeria	2017	100	kg	FAO
Algeria	2018	100	kg	FAO
Algeria	2019	100	kg	FAO
Algeria	2020	100	kg	FAO
Algeria	2021	100	kg	FAO
Algeria	2022	100	kg	FAO
Algeria	2023	100	kg	FAO
Algeria	2024	100	kg	FAO
Algeria	2025	100	kg	FAO
Algeria	2026	100	kg	FAO
Algeria	2027	100	kg	FAO
Algeria	2028	100	kg	FAO
Algeria	2029	100	kg	FAO
Algeria	2030	100	kg	FAO
Algeria	2031	100	kg	FAO
Algeria	2032	100	kg	FAO
Algeria	2033	100	kg	FAO
Algeria	2034	100	kg	FAO
Algeria	2035	100	kg	FAO
Algeria	2036	100	kg	FAO
Algeria	2037	100	kg	FAO
Algeria	2038	100	kg	FAO
Algeria	2039	100	kg	FAO
Algeria	2040	100	kg	FAO
Algeria	2041	100	kg	FAO
Algeria	2042	100	kg	FAO
Algeria	2043	100	kg	FAO
Algeria	2044	100	kg	FAO
Algeria	2045	100	kg	FAO
Algeria	2046	100	kg	FAO
Algeria	2047	100	kg	FAO
Algeria	2048	100	kg	FAO
Algeria	2049	100	kg	FAO
Algeria	2050	100	kg	



FIGURE 2

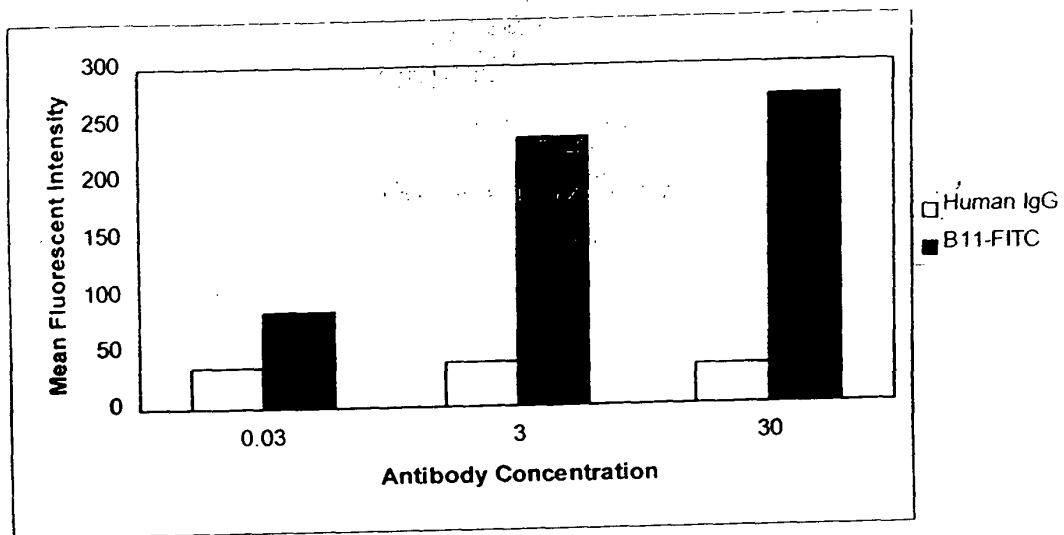


FIGURE 3

Macrophages

Dendritic Cells

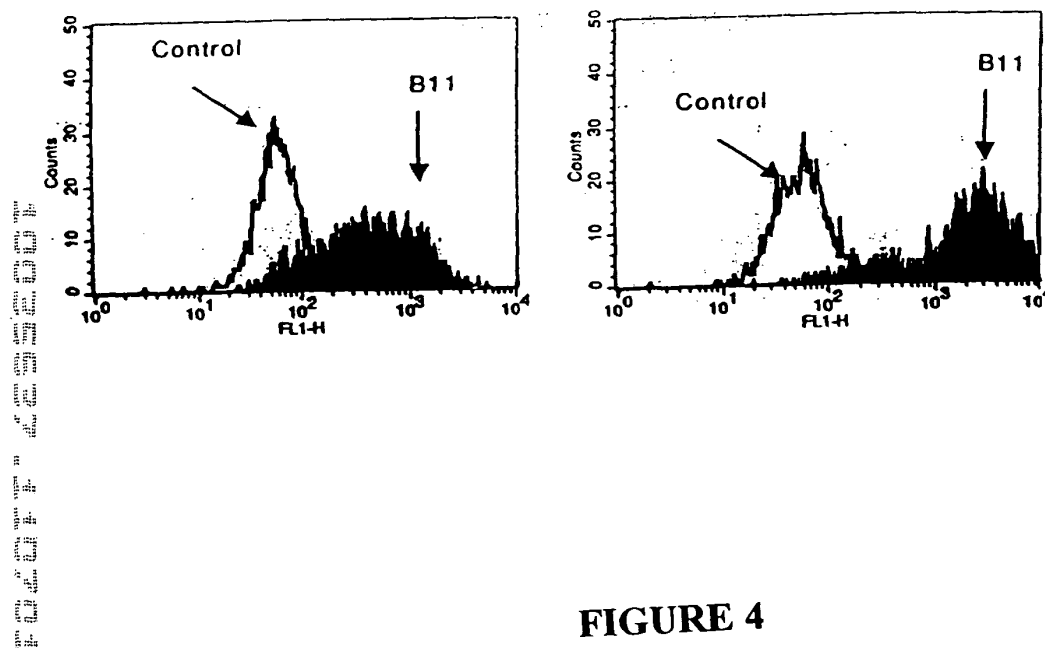


FIGURE 4

THP-1 Cells

THP-1 Cells Cultured
with GM-CSF and IL-4

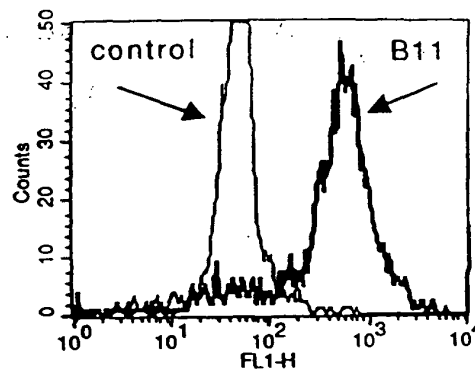
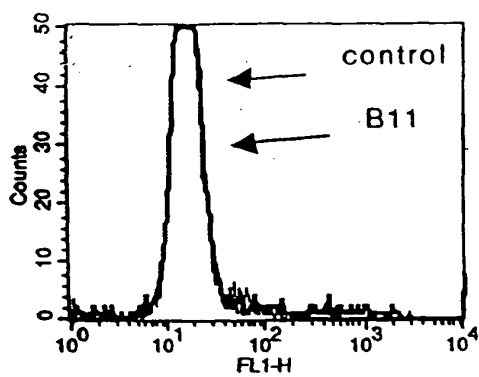


FIGURE 5

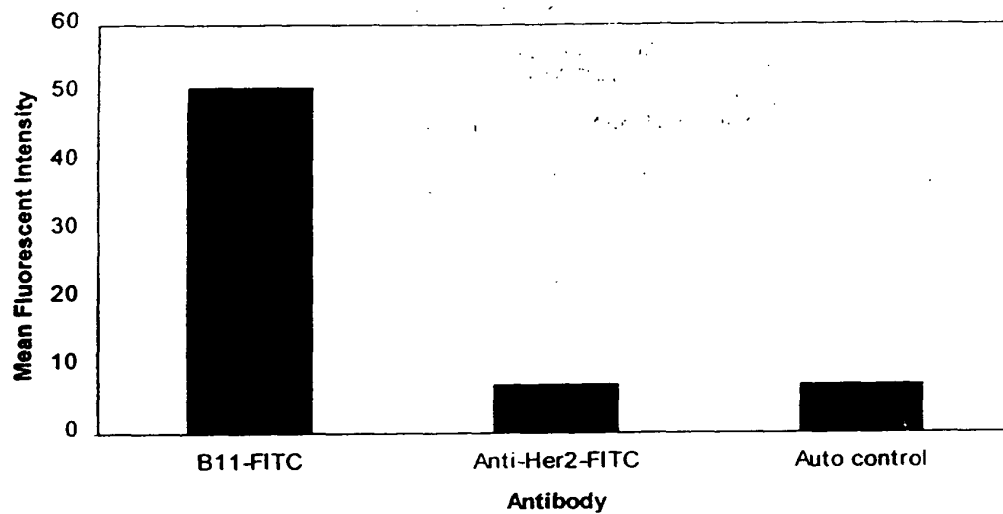


FIGURE 6

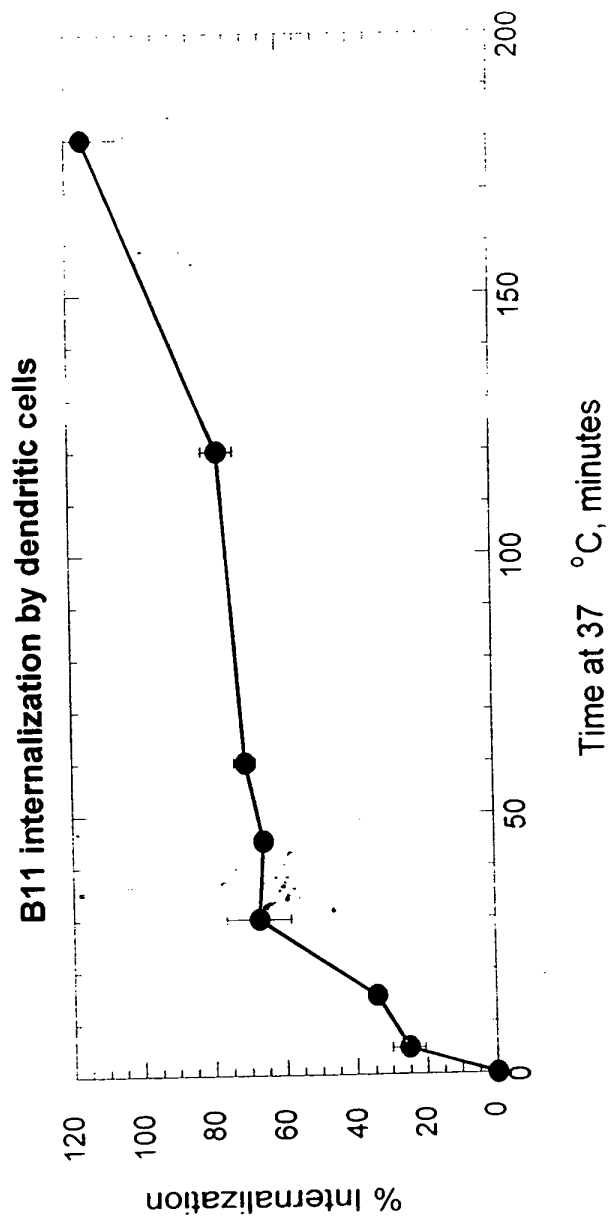


FIGURE 7

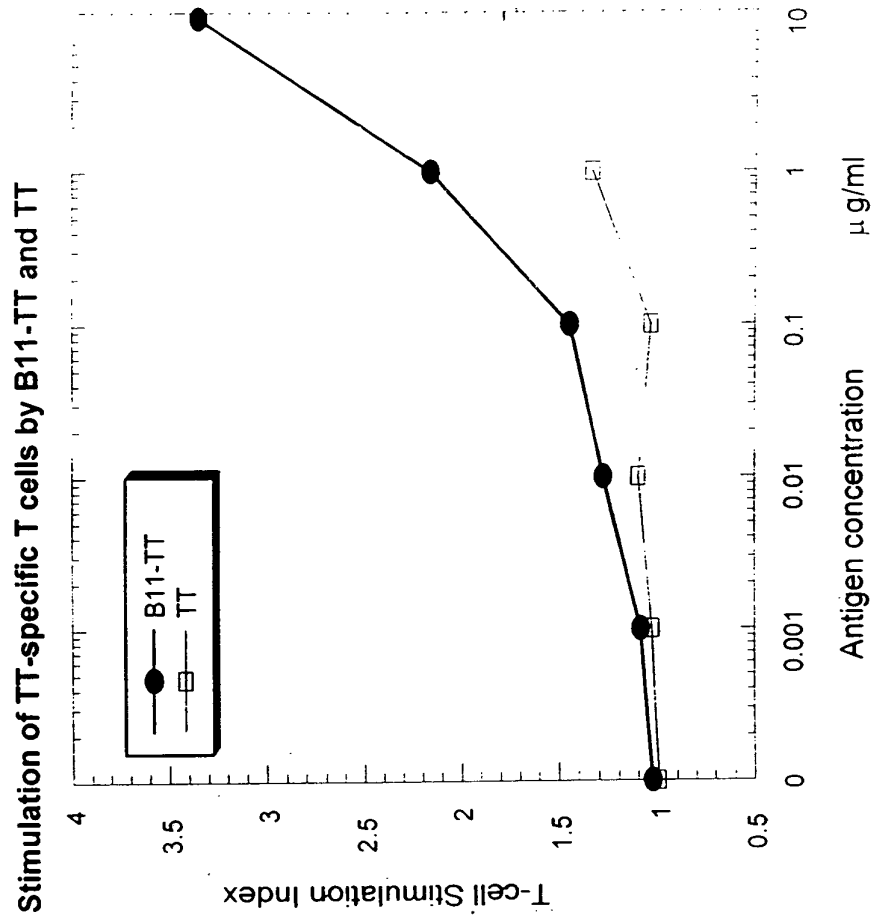


FIGURE 8

bioRxiv preprint doi: <https://doi.org/10.1101/151111>; this version posted May 10, 2017. The copyright holder for this preprint (which was not certified by peer review) is the author/funder, who has granted bioRxiv a license to display the preprint in perpetuity. It is made available under aCC-BY-NC-ND 4.0 International license.

B11-ScFv construct map:

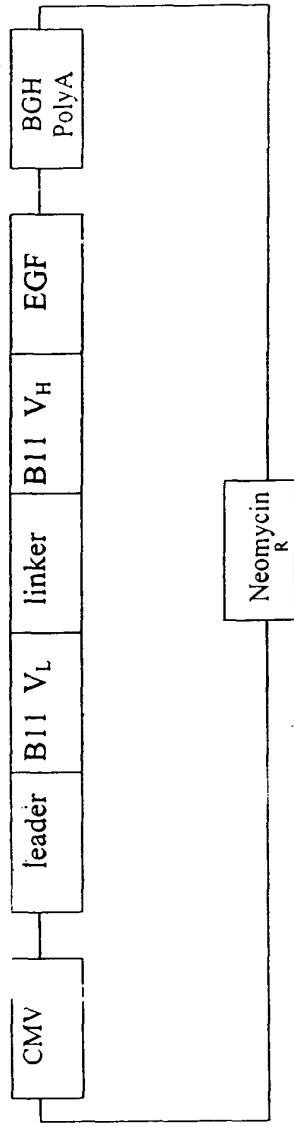


FIGURE 9

1000 800 600 400 200 0
 0.01 0.1 1 10 100
 Mean Fluorescence Intensity
 Antibody Concentration, $\mu\text{g/ml}$

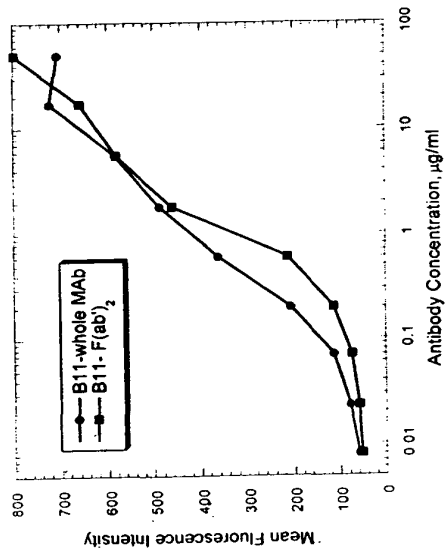


FIGURE 10

Condition	% FITC-Dextran Uptake
4°C Hu IgG Control	-5
37°C Hu IgG Control	100
4°C B11	-10
37°C B11	40

FIGURE 11

Enhanced antigen processing and presentation with B11-targeting

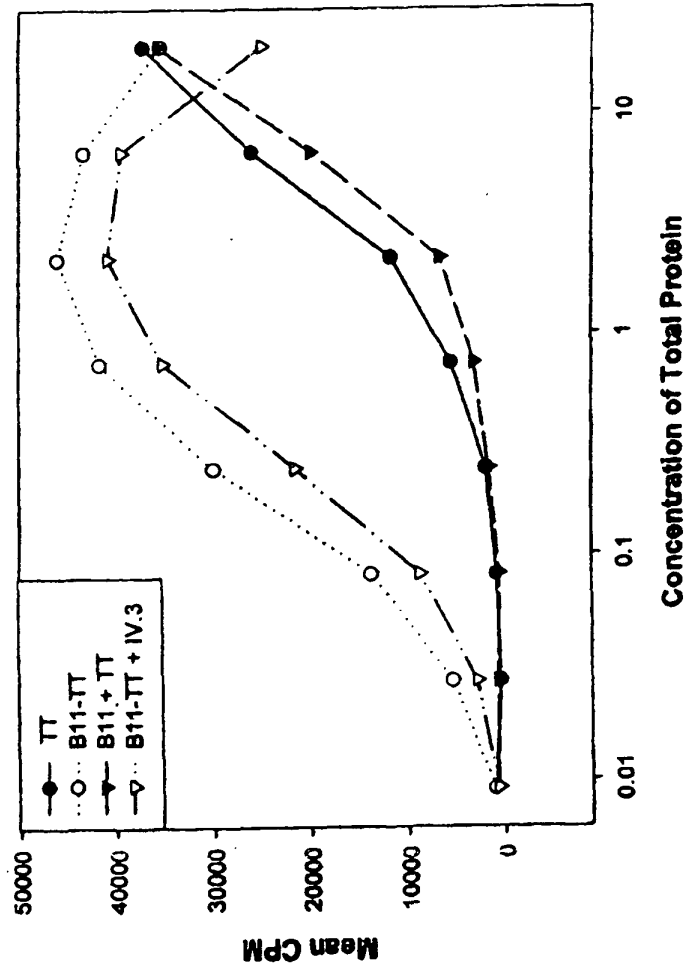


FIGURE 12

B11 HuMAb sequence data:

B11 VL DNA:

GACATCCAGATGACCCAGTCTCCATCCTCACTGTCTGCATCTGTAGGAGACA
GAGTCACCATCACTTGTCGGGCGAGTCA
GGGTATTAGCAGGTGGTTAGCCTGGTATCAGCAGAAACCAGAGAAAGCCCCT
AAGTCCCTGATCTATGCTGCATCCAGTT
TGCAAAGTGGGGTCCCATCAAGGTTGAGCGGCAGTGGATCTGGGACAGATTT
CACTCTCACCATCAGCGGCCTGCAGCCT
GAAGATTTTGCAACTTATTACTGCCAACAGTATAATAGTTACCCTCGGACGTT
CGGCCAAGGGACCAAGGTGGAAATCAA
A

B11 VL protein:

DIQMTQSPSSLSASVGDRVTITCRASQGISRWLAWYQQKPEKAPKSLIYAASSLQ
SGVPSRFSGSGSGTDFTLTISGLQP
EDFATYYCQYNSYPRTFGQGTKVEIK

B11 VH DNA:

GAGGTGCAGCTGGTGCAGTCTGGAGCAGAGGTGAAAAAGCCCGGGGAGTCT
CTGAGGATCTCCTGTAAGGGTTCTGGAGA
CAGTTTTACCACCTACTGGATCGGCTGGGTGCGCCAGATGCCCGGGAAAGGC
CTGGAGTGGATGGGGATCATCTATCCTG
GTGACTCTGATACCATATACAGCCCGTCCTTCCAAGGCCAGGTCACCATCTCA
GCCGACAAGTCCATCAGCACCGCCTAC
CTGCAGTGGAGCAGCCTGAAGGCCTCGGACACCGCCATGTATTACTGTACGA
GAGGGGACCGGGGCGTTGACTACTGGGG
CCAGGGAACCTGGTCACCGTCTCCTCA

B11 VH protein:

EVQLVQSGAEVKKPGESLRISCKGSGDSFTTYWIGWVRQMPGKGLEWMGIIYPG
DSDTIYSPSFQGVVTISADKSISTAY
LQWSSLKASDTAMYYCTRGRGV^YWGQGLVTVSS

FIGURE 13

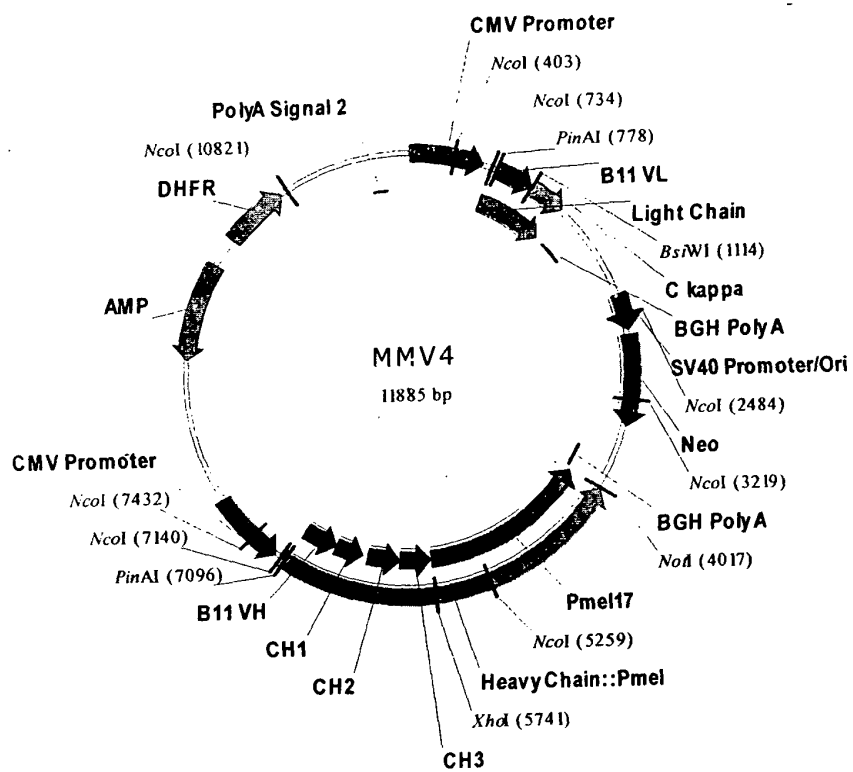


FIGURE 14